Stormwater and Flooding in Flagstaff



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Killip Elementary Science Camp

6/13/19





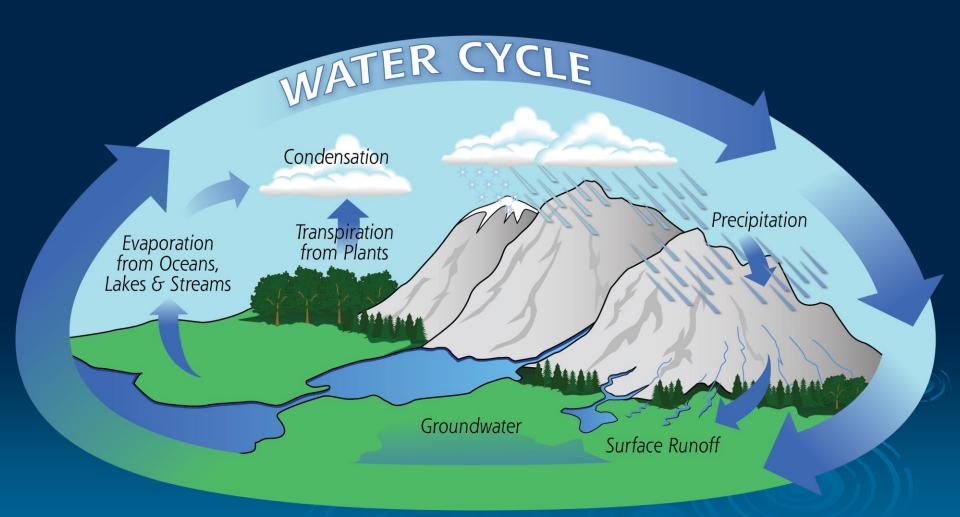
About Me



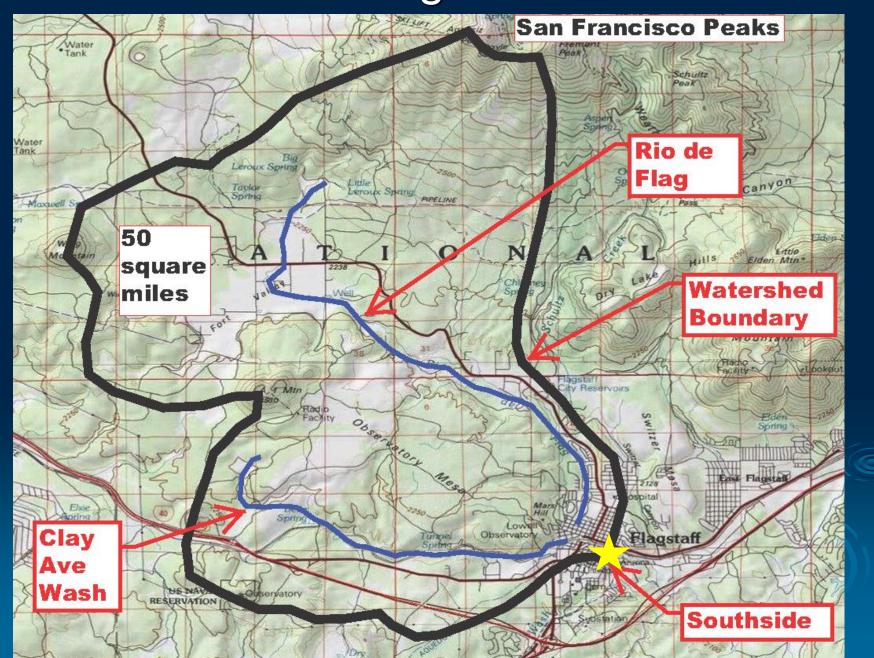
I'm Madeleine and I work at the City of Flagstaff! I am a Water Conservation expert!

I'm here today to talk about how water can become a problem in our city.

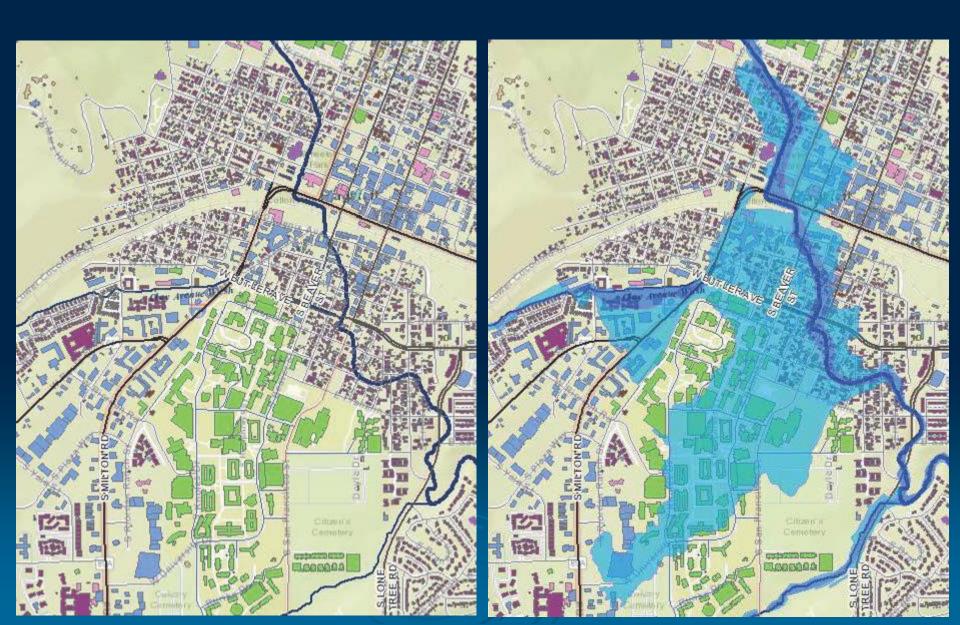
How does rain become a problem?



Rio de Flag Watershed



Downtown flooding



Floods can be dangerous



What happens to houses?

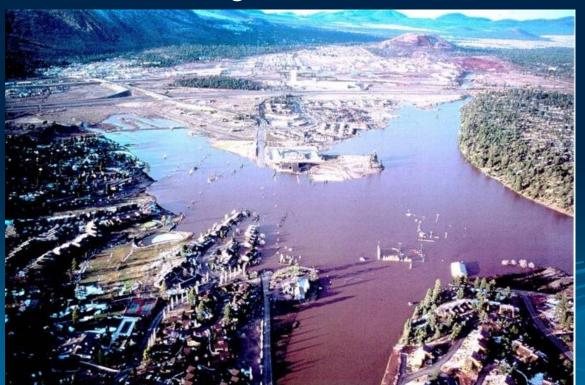
- Flood water is very dirty, so anything that is under water needs to be replaced
- All of the electronics need to be replaced
- Floors, walls, and inside walls bay be ruined



Stormwater Purpose

The purpose of the Stormwater Section at the City of Flagstaff is to...

- Reduce the chance of flooding
- Minimize the dangerous effects of stormwater



The City of Flagstaff does a lot things to keep flooding from happening...

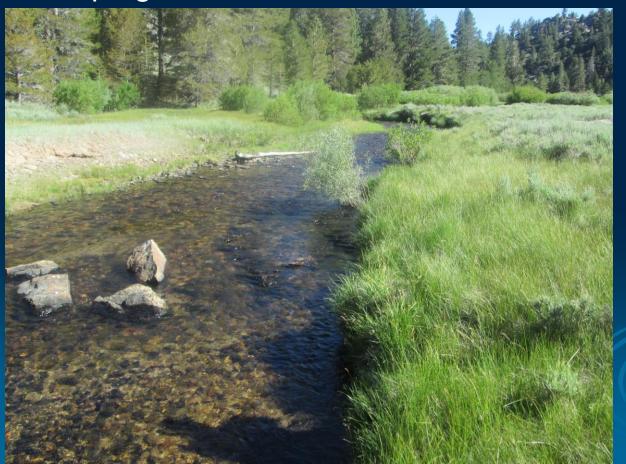
 Storm drains move some of the water from the street to the Rio de Flag





The City of Flagstaff does a lot things to keep flooding from happening...

Keeping our rivers and channels clean



A healthy channel

The City of Flagstaff does a lot things to keep flooding from happening...

Keeping our rivers and channels clean



An unhealthy channel



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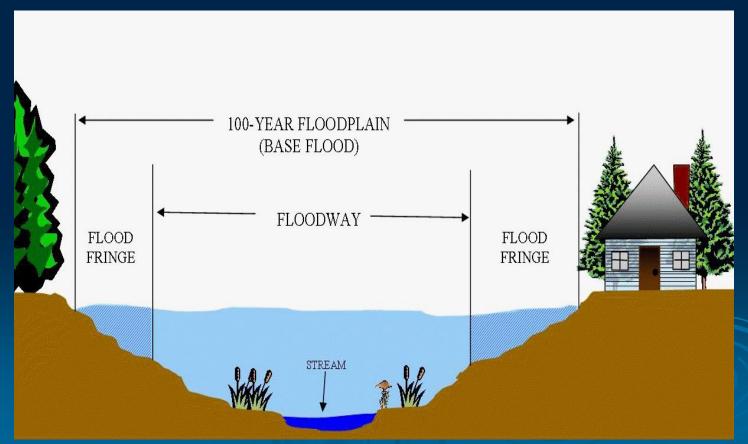
Keeping our rivers and channels clean



An unhealthy channel

The City of Flagstaff does a lot things to keep flooding from happening...

Keeping homes above the floodplain







The City of Flagstaff does a lot things to keep flooding from happening...

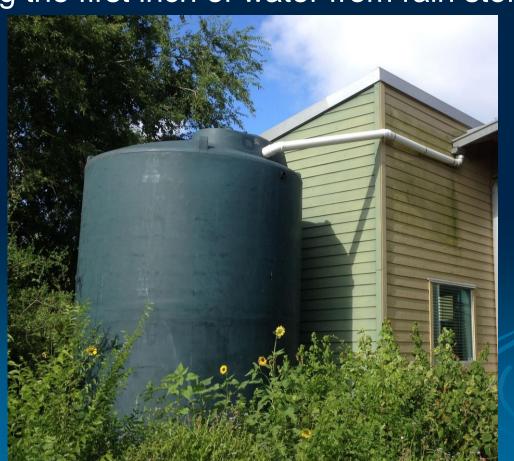
Storing the first inch of water from rain storms





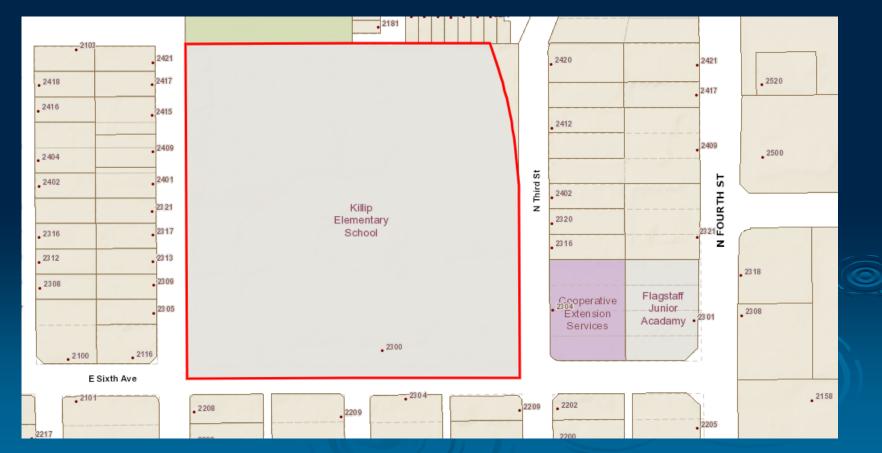
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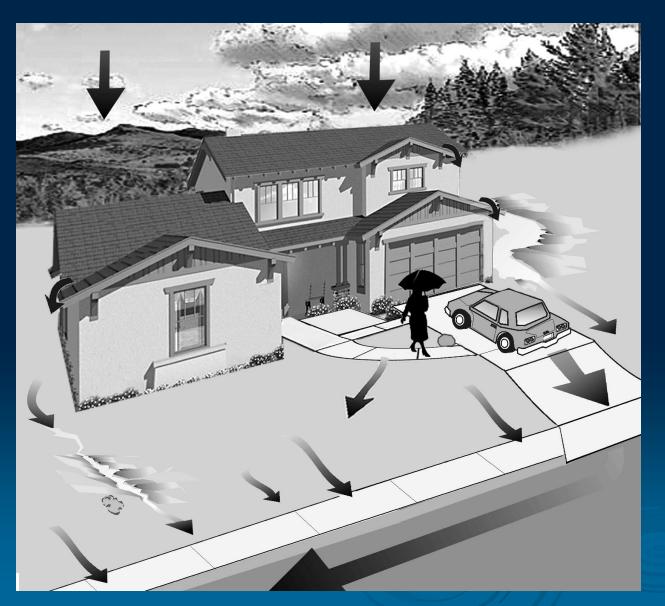


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Keeping water on the property

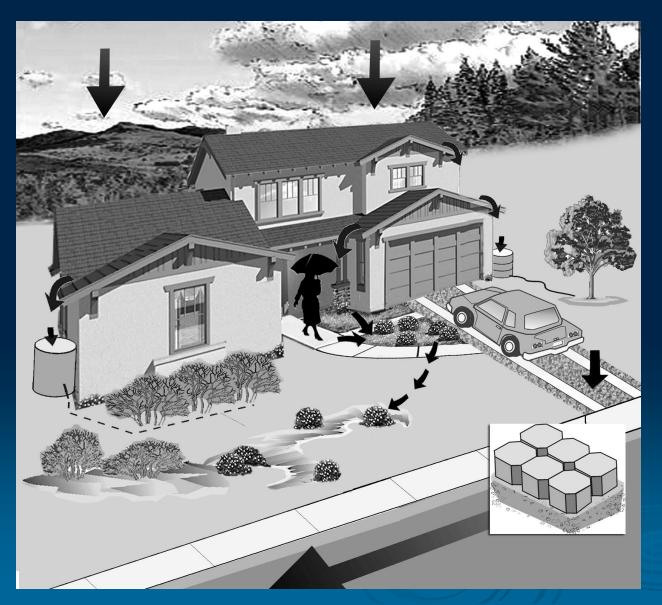


A bad example 🕾



Hard surfaces cause water to run off

A good example!



Ditches, permeable surfaces, rain water tanks, and plants...

keep water on the property!

Oh no, a flood! What now?

Emergency measures need to be taken...

The city offers technical assistance



Oh no, a flood! What now?

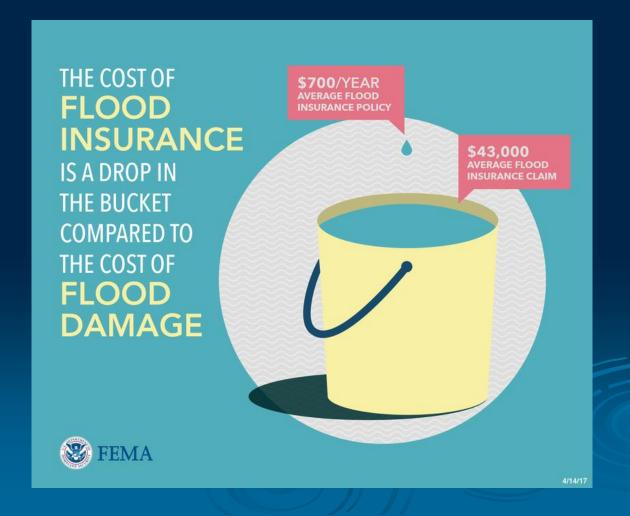
Emergency measures need to be taken...



Oh no, a flood! What now?

Emergency measures need to be taken...

You better have flood insurance!



In summary

- Floods cause a lot of damage to peoples houses and the environment
- The City of Flagstaff has a lot of codes for builders to prevent bad effects



